## COMPUTERS BOUND FOR MEDICAL R

ويكرف للوال والمجاهر والمعط Symposium Shows Range of Research the 'Brains' Could Be Used For .

puters may soon come on stage computers, might ultimately reas important actors in the place written records of medidrama of medicine and biologi- cal patients altogether. cal research, according to reports at a symposium last week in Endicott, N. Y.

Methods involving the socalled giant electronic brains huge or too tedious to be otherwise possible or worthwhile.

ended Friday, was the second annual symposium sponsored by the International Business Machines Corporation for a selection of the nation's experts in the medical and biological applications of computers.

## Variety of Tasks

In pilot studies the machines and related data-processing techniques have been put to such tasks as evaluating the amount of physical disability a person suffered from an illness a superficially "normal" group of persons; rapid testing of medical hypotheses that might otherwise take years to prove abnormalities in the heart pator disprove; testing theoretical terns recorded on the electro-"models" designed to explain cardiogram, according to studies internal body processes, and at New York University and by studying the nature of the nerv- the Heart Disease Control Pro-

The emphasis throughout the lic Health Service.

three days was not on ways of replacing the specialist by a specialized machine, but on ways of using machines to extend and increase the effectiveness of physician and biological scientist alike.

Dr. Joseph E. Schenthal, head of the Hutchinson Memorial Clinic at the Tulane University Medical School, New Orleans, said he thought medi-By HAROLD M. SCHMECK Jr. cal records stored on tape, or Sophisticated electronic com- in other ways appropriate to

> A person's entire lifetime of "medical history" can be stored on a few feet of magnetic tape, he said.

## Hypothesis Tested

Dr. Schenthal and his colare already showing promise leagues in New Orleans wanted in a wide variety of tasks too to test the hypothesis that it was unlikely that many appaise possible or worthwhile. rently well and symptom-free women who attended a cancer detection clinic would be found to have underlying conditions that raise the suspicion of heart

Using an I. B. M. 650 computer the hypothesis was tested on 361 women screened during the last year. The computer was instructed to scan their total medical records in search of any of thirty-five subtle abnormalities.

Contrary to the hypothesis, the data search quickly showed ninety-one persons who had such conditions and therefore such as poliomyelitis or tuber-culosis; culling out likely can-didates for heart disease from needed further check by a physician.

> Computers are evidently cagram of the United States Pub-